

WHAT IS CLAIMED IS:

1. An image display device, comprising:

a rear plate having a large number of electron emission elements

5 formed in a predetermined arrangement; and

a face plate placed opposite to the rear plate and having
a pattern of a phosphor layer formed in a predetermined arrangement
and a pattern of a light absorption layer formed as a black matrix,
on an inner surface of a light transmissive panel,

10 wherein each pattern portion of the phosphor layer is composed
of a light emitting portion receiving electron beams emitted from
the electron emission elements projected thereto to emit light and
a non-light emitting portion formed in a periphery of the light
emitting portion, and the each pattern portion has a polygonal shape
15 obtained by cutting corners from a quadrangle concentric with the
light emitting portion.

2. The image display device as set forth in claim 1, wherein
an area of the each pattern portion of the phosphor layer is 1.5
to 4 times an area of the light emitting portion.

20 3. An image display device, comprising:

a rear plate having a large number of electron emission elements

formed in a predetermined arrangement; and

a face plate placed opposite to the rear plate and having
a pattern of a phosphor layer formed in a predetermined arrangement
25 and a pattern of a light absorption layer formed as a black matrix,
on an inner surface of a light transmissive panel,

wherein each pattern portion of the phosphor layer is composed
of a light emitting portion receiving electron beams emitted from

the electron emission elements projected thereto to emit light and a non-light emitting portion formed in a periphery of the light emitting portion, and an area of the each pattern portion is 1.5 to 4 times an area of the light emitting portion.

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